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L6	1	"7019535".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/16 16:33
L7	16	((s adj parameter\$1) or (s-parameter\$1) or (s adj matrix) or (s-matrix)) and (network adj analyzer\$1) and (time near gat\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/16 18:00
L8	41	((s adj parameter\$1) or (s-parameter\$1) or (s adj matrix) or (s-matrix)) and (time near gat\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/16 18:05
L9	1	"6356163".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/16 18:05

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L11	9	((s adj parameter\$1) or (s-parameter\$1) or (s adj matrix) or (s-matrix)) and telegrapher\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2006/12/16 18:16
L12	17	((s adj parameter\$1) or (s-parameter\$1) or (s adj matrix) or (s-matrix))	IBM_TDB	OR	OFF	2006/12/16 18:16

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L7	48	de-embedding and ((s adj parameter\$1) or (s-parameter\$1)) and (transmission adj lin\$2)	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/12/18 15:41

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- ☐ 1. A systematic error analysis of HP 8510 time-domain gating techniques with experimental verification
Lu, K.; Brazil, T.J.;
[Microwave Symposium Digest, 1993, IEEE MTT-S International](#)
14-18 June 1993 Page(s):1259 - 1262 vol.3
Digital Object Identifier 10.1109/MWSYM.1993.277102
[AbstractPlus](#) | Full Text: [PDF\(252 KB\)](#) IEEE CNF
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- ☐ 2. Improvement in antenna factor measurements using time-domain gating
Kashyap, S.; Mishra, S.R.;
[Electromagnetic Compatibility, 1988. Symposium Record, IEEE 1988 International Symposium on](#)
2-4 Aug. 1988 Page(s):82 - 86
Digital Object Identifier 10.1109/ISEMC.1988.14092
[AbstractPlus](#) | Full Text: [PDF\(224 KB\)](#) IEEE CNF
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- ☐ 3. Improved Free-Space S-Parameter Calibration
Bartley, P.G.; Begley, S.B.;
[Instrumentation and Measurement Technology Conference, 2005. IMTC 2005. Proceedings of the IEEE](#)
Volume 1, 16-19 May 2005 Page(s):372 - 375
[AbstractPlus](#) | Full Text: [PDF\(200 KB\)](#) IEEE CNF
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- ☐ 4. Nondestructive sensing of physical properties of granular materials by microwave permittivity measurement
Trabelsi, S.; Nelson, S.O.;
[Instrumentation and Measurement, IEEE Transactions on](#)
Volume 55, Issue 3, June 2006 Page(s):953 - 963
Digital Object Identifier 10.1109/TIM.2006.873787
[AbstractPlus](#) | Full Text: [PDF\(424 KB\)](#) IEEE JNL
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- ☐ 5. A free-space method for measurement of dielectric constants and loss tangents at microwave frequencies
Ghodgaonkar, D.K.; Varadan, V.V.; Varadan, V.K.;
[Instrumentation and Measurement, IEEE Transactions on](#)
Volume 38, Issue 3, June 1989 Page(s):789 - 793
Digital Object Identifier 10.1109/19.32194
[AbstractPlus](#) | Full Text: [PDF\(360 KB\)](#) IEEE JNL
[Rights and Permissions](#)
- ☐ 6. Extracting μ_r and ϵ_{psl} of solids from one-port phasor network analyzer measurements
Sequeira, H.B.;
[Instrumentation and Measurement, IEEE Transactions on](#)
Volume 39, Issue 4, Aug. 1990 Page(s):621 - 627
Digital Object Identifier 10.1109/19.57244

Scholar

Results 1 - 7 of 7 for "**s parameters**" telegraphers. (0.07 seconds)

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A new formulation for the analysis of non-uniform transmissionlines using frequency-varying basis ...

AB Kouki, A Hamade, FM Ghannouchi - Microwave Symposium Digest, 1995., IEEE MTT-S International, 1995 - [ieeexplore.ieee.org](#)

... structure can be described in terms of the **telegraphers'** equations with ... voltage coefficients was obtained which would yield the **S-parameters** of structure ...

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S-parameter VLSI transmission line analysis - group of 2 »

BJ Cooke, JL Prince, AC Cangellaris, OA Palusinski - Electronic Components Conference, 1989. Proceedings., 39th, 1989 - [ieeexplore.ieee.org](#)

... length (meter) **S-parameters** of the frequency dependent coupled lines can be derived in the following manner. The frequency domain **Telegraphers** equations for a ...

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A CAD-Suitable Approach for the Analysis of Nonuniform MMIC and MHMIC Transmission Lines

I INTRODUCTION - IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES, 1996 - [ieeexplore.ieee.org](#)

... in such a structure can be described in terms of the **telegraphers'** equations with ... with $\text{kit} = 0$ s 2 = Using these results, and the **S-parameters** definition s ...

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Embedded ground planes using sidewall insulators for high frequencyinterconnections in integrated ...

DS Gardner, QT Vu, PJ van Wijnen, TJ Maloney, DB ... - Electron Devices Meeting, 1993. Technical Digest., ..., 1993 - [ieeexplore.ieee.org](#)

... port **S-parameters** were measured to see interconnects. ... y and the characteristic then be used to determine the parasitics by to the **Telegraphers'** equation. ...

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Efficient simulation of interconnects in high-speed circuits

E Dautbegovic, M Condon - High Frequency Postgraduate Student Colloquium, 2003, 2003 - [ieeexplore.ieee.org](#)

... assuming TEM mode of propagation, is described by the **Telegraphers** Equations: dV ... of the overall z-domain rational functions approximating they or **s parameters**. ...

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Simulation of High Speed Digital Circuit Interconnection Networks - group of 4 »

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... 43 4.1 Effect of required filtering on two port **S-parameters**.

45 4.2 Chip to substrate bondwire connection

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Progress in the methodologies for the electrical modeling of interconnects and electronic packages - group of 4 »

AE Ruehli, AC Cangellaris - Proceedings of the IEEE, 2001 - [ieeexplore.ieee.org](#)

... time evolution of the TL voltages and currents are governed by a hyperbolic system of equations, often referred to as the generalized **telegraphers** equations. ...

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... length (meter) **S-parameters** of the frequency dependent coupled lines can be derived in the following manner. The frequency domain **Telegraphers** equations for a ...

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AB Kouki, A Hamade, FM Ghannouchi - Microwave Symposium Digest, 1995., IEEE MTT-S International, 1995 - [ieeexplore.ieee.org](#)

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M Feuer

S Shunk

P Smith

M Nuss

N Law

100 GHz wafer probes based on photoconductive sampling - group of 2 »

MD Feuer, SC Shunk, PR Smith, MC Nuss, NH Law - Photonics Technology Letters, IEEE, 1993 -
ieeexplore.ieee.org

... probe, analyzed by conventional **time-gating** method, shows ... **parameters**, and refinements
to the standard ... solutions to some **network analyzer** calibration equations ...

Cited by 5 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

Software for multi-port RF network analysis with a large number offrequency samples and
application ...

CS Hartmann, RT Hartmann - Ultrasonics Symposium, 1990. Proceedings., IEEE 1990, 1990 -
ieeexplore.ieee.org

... 2). Data transfer from the **network analyzer** uses fast DMA ... 10 data sets of 2—Port

S—Parameters and ends ... elements or the best **time—gating** windows during ...

Cited by 3 - [Related Articles](#) - [Web Search](#)

Millimeter apparatus for transmission line and dielectric materialmeasurements by
multifrequency ...

OO Drobrikhin, VF Borulko, VA Karlov - ... Electromagnetic Measurements Digest, 1996 Conference on,
1996 - ieeexplore.ieee.org

... replace a number of calibrations by calculation **S parameters**. ... The **time-gating** also
allows us to cancel finite ... with the I-lewlett-Packard **network analyzer** HP 85 ...

Cited by 2 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

An In-Circuit Noncontacting Measurement Method for - group of 4 »

J Stenarson, K Yhland, C Wingqvist - IEEE TRANSACTIONS ON MICROWAVE THEORY AND
TECHNIQUES, 2001 - ieeexplore.ieee.org

... for **S -Parameters** and Power in Planar Circuits ... diagram of the one-port vector **network
analyzer** (VNA) setup ... Using the **time-gating** option of the Agilent 8510C ...

Cited by 2 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

Measurement of propagation constant in waveguides with wideband coherent terahertz
spectroscopy - group of 4 »

S Hadjiloucas, RKH Galvão, JW Bowen, R Martini, M ... - Journal of the Optical Society of America B, 2003 -
OSA

... piece, causing an error in the measured **S parameters**. ... process with a vector **network
analyzer**, the only ... Fourier trans- form necessary for **time gating** is obviated ...

Cited by 1 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

Isolation of SAW-transducer response using 3-port measurements

PG Schelbert - Ultrasonics Symposium, 1991. Proceedings., IEEE 1991, 1991 - ieeexplore.ieee.org

... of the transducers to take the most advantage of the **time- gating**. ... the SAW part,
resulting in the **S-parameters** Sdm, SdAc ... cia1 vector **network analyzer** (HP8753). ...

Cited by 1 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

Measurement and analysis for transmission characteristics of microstrip line covered with
lossy ...

A Saito, A Nishikata - Electronics and Communications in Japan(Part I ... , 2003 - doi.wiley.com

... m. This is connected to a **network analyzer** (with the ... the printed substrate is eliminated
by **time gating** in the ... of the MSL and then the **S parameters** are measured ...

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ANALYSIS AND DEVELOPMENT OF MICROSTRIP INTERDIGITATED STRUCTURES
USING FDTD AND STATISTICAL ... - group of 5 »

JG Colom - 1998 - remcom.com

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[N Shah](#)

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[J Espinoza](#)

A 5-watt, 37-GHz monolithic grid amplifier - group of 4 »

B Deckman, DS Deakin Jr, E Sovero, D Rutledge - Microwave Symposium Digest., 2000 IEEE MTT-S International, 2000 - [ieeexplore.ieee.org](#)

... of the power incident on the polarizer is detected by the **network analyzer**, which is ... The **time-gating** functions of the network analyzer were used to eliminate ...
Cited by 13 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

AVNA-based polarimetric scatterometers - group of 3 »

FT Ulaby, MW Whitt, K Sarabandi - Antennas and Propagation Magazine, IEEE, 1990 - [ieeexplore.ieee.org](#)

... With the recent introduction of the Automatic Vector **Network Analyzer** (AVNA), making accurate measurements of both the magnitude and phase of the scattered ...
Cited by 19 - [Related Articles](#) - [Web Search](#)

The theory, design, and applications of surface acoustic wave Fourier-transform processors - group of 3 »

MA Jack, PM Grant, JH Collins - Proceedings of the IEEE, 1980 - [ieeexplore.ieee.org](#)

... When the second processor performs an inverse Fourier transform, simple **time gating** can be used to provide a band-stop/bandpass filtering function [421, [431 ...
Cited by 30 - [Related Articles](#) - [Web Search](#)

Non-Invasive In Vivo Characterization of Breast Tumors Using Photon Migration Spectroscopy - group of 6 »

BJ Tromberg, N Shah, R Lanning, A Cerussi, J ... - Neoplasia, 2000 - [mips.stanford.edu](#)

... By **time-gating** the detector, one can adjust the "viewing volume" in the tissue ...
The core component of the FDPM apparatus is a **network analyzer** (Hewlett Packard ...
Cited by 136 - [Related Articles](#) - [View as HTML](#) - [Web Search](#) - [BL Direct](#)

High extinction ratio and saturation power traveling-wave electroabsorption modulator - group of 4 »

YJ Chiu, HF Chou, V Kaman, P Abraham, JE Bowers - Photonics Technology Letters, IEEE, 2002 - [ieeexplore.ieee.org](#)

... response was measured by a HP Lightwave Component **Network analyzer** (HP8703A ... power and pulsewidths are the walkoff time and the **time-gating** window distributively ...
Cited by 41 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

Surface Transverse Wave Propagation Under Metal Strip Gratings

DF Thompson, BA Auld - Ultrasonics Symposium, IEEE 1986, 1986 - [ieeexplore.ieee.org](#)

... the frequency response of the device with both the feedthrough and the triple transient removed, using the **time-gating** feature ... of the 8510 **network analyzer**. ...
Cited by 14 - [Related Articles](#) - [Web Search](#)

Time delay characteristics of 2.4 GHz band radio propagation channels in room environments

YP Zhang, Y Hwang - Personal, Indoor and Mobile Radio Communications, 1994. ..., 1994 - [ieeexplore.ieee.org](#)

... HRcUn)Hp2Cio))HNa(jo)) (2) (3) The contribution of the **network analyzer** itself and ...
FFT to get the time domain $s_{21}(t)$, thirdly apply **time gating** technique to ...
Cited by 6 - [Related Articles](#) - [Web Search](#)

Calibration of ultrasonic hydrophone probes up to 100 MHz using time gating frequency analysis and ... - group of 4 »

EG Radulescu, PA Lewin, J Wójcik, A Nowicki - Ultrasonics, 2003 - Elsevier

... The **time gating** (ensuring free field conditions) was implemented with the help of **network analyzer** 8753ES (Agilent Technologies). ...

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Schutt-Aine, J.E.; Mitra, R.;
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[Microwave Theory and Techniques, IEEE Transactions on](#)
Volume 44, Issue 5, May 1996 Page(s):783 - 788
Digital Object Identifier 10.1109/22.493933
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- ☐ 5. **Computation of the equivalent capacitance of a via in a multilayered board using the closed-form Green's function**
Oh, K.S.; Schutt-Aine, J.E.; Mitra, R.; Bu Wang;
[Microwave Theory and Techniques, IEEE Transactions on](#)
Volume 44, Issue 2, Feb. 1996 Page(s):347 - 349
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- ☐ 6. **Optimal transient simulation of distributed lines**
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[Multi-Chip Module Conference, 1995, MCMC-95, Proceedings., 1995 IEEE](#)
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 Feuer, M.D.; Shunk, S.C.; Smith, P.R.; Nuss, M.C.; Law, N.H.;
[Photonics Technology Letters, IEEE](#)
 Volume 5, Issue 3, March 1993 Page(s):361 - 364
 Digital Object Identifier 10.1109/68.205639
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- ☐ 2. IEEE recommended practice for Radio-Frequency (RF) absorber evaluation in the range of 30 MHz to 5 GHz
[IEEE Std 1128-1998](#)
 30 April 1998
[AbstractPlus](#) | Full Text: [PDF](#)(620 KB) IEEE STD
- ☐ 3. A microwave anechoic chamber for radar-cross section measurement
 Chung, B.K.; Chuah, H.T.; Bredow, J.W.;
[Antennas and Propagation Magazine, IEEE](#)
 Volume 39, Issue 3, June 1997 Page(s):21 - 26
 Digital Object Identifier 10.1109/74.598557
[AbstractPlus](#) | Full Text: [PDF](#)(596 KB) IEEE JNL
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 Stenarson, J.; Yhland, K.; Wingqvist, C.;
[Microwave Theory and Techniques, IEEE Transactions on](#)
 Volume 49, Issue 12, Dec. 2001 Page(s):2567 - 2572
 Digital Object Identifier 10.1109/22.971651
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- ☐ 5. Complete scattering parameter characterisation by FDTD method of Y-junction power dividers with small output angles
 Hum, P.J.; Leong, M.S.; Kooi, P.S.; Yeo, T.S.;
[Microwaves, Antennas and Propagation, IEE Proceedings -](#)
 Volume 142, Issue 5, Oct. 1995 Page(s):379
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- ☐ 6. The precision of quasi-optical null-balanced bridge techniques for S-parameter measurement
 Bowen, J.W.; Hadjilucas, S.;
[Terahertz Electronics Proceedings, 1998. THz Ninety Eight, 1998 IEEE Sixth International Conference on](#)
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